

# Patient Safety Indicator 02 (PSI 02) Death Rate in Low-Mortality Diagnosis Related Groups (DRGs) July 2019 Provider-Level Indicator Type of Score: Rate

## Prepared by:

Agency for Healthcare Research and Quality

U.S. Department of Health and Human Services

www.qualityindicators.ahrq.gov

### **DESCRIPTION**

In-hospital deaths per 1,000 discharges for low mortality (< 0.5%) Diagnosis Related Groups (DRGs) among patients ages 18 years and older or obstetric patients. Excludes cases with trauma, cases with cancer, cases with an immunocompromised state, and transfers to an acute care facility.

[NOTE: The software provides the rate per hospital discharge. However, common practice reports the measure as per 1,000 discharges. The user must multiply the rate obtained from the software by 1,000 to report inhospital deaths per 1,000 hospital discharges.]

### **NUMERATOR**

Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.

### **DENOMINATOR**

Discharges, for patients ages 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), with a low-mortality (less than 0.5% mortality) MS-DRG code (*LOWMODR*\*). If an MS-DRG is divided into "without/with (major) complications and comorbidities," both codes without complications/comorbidities and codes with (major) complications/comorbidities must have mortality rates below 0.5% in the reference population to qualify for inclusion.

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AHRQ QI™ ICD-10-CM/PCS Specification v2019
PSI 02 Death Rate in Low-Mortality Diagnosis Related Groups (DRGs)
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### **DENOMINATOR EXCLUSIONS**

Exclude cases:

- with any listed ICD-10-CM diagnosis codes for trauma (*Appendix G: TRAUMID*)
- with any listed ICD-10-CM diagnosis codes for cancer (Appendix H: CANCEID)
- with any listed ICD-10-CM diagnosis codes for immunocompromised state (Appendix I: IMMUNID)
- with any listed ICD-10-PCS procedure codes for immunocompromised state (*Appendix I: IMMUNIP*)
- transfer to an acute care facility (DISP=2)
- with missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis (DX1=missing)

<u>Appendix G - Trauma Diagnosis Codes</u> <u>Appendix H - Cancer Diagnosis Codes</u> <u>Appendix I - Immunocompromised State Diagnosis and Procedure Codes</u>

\* See below for code list

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# Low-mortality (less than 0.5%) MS-DRG codes: (LOWMODR)

075         Viral meningitis w ce/mee         708 Major male pelvic procedures w/o ce/mee           076         Viral meningitis w/o ce/mee         709 Major male penis procedures w/o ce/mee           113         Orbital procedures w/o ce/mee         710 Major male penis procedures w/o ce/mee           114         Orbital procedures w/o ce/mee         742 Uterine and adnexa procedures for non-malignancy w/o ce/mee           116         Intraocular procedures w/o ce/mee         743 Uterine and adnexa procedures for non-malignancy w/o ce/mee           123         Neurological cyc disorders         747 Vagina, cervix and vulva procedures w/o ce/mee           137         Mouth procedures w/o ce/mee         748 Female reproductive system reconstructive procedures           138         Mouth procedures w/o ce/mee         768 Menstrual and other female reproductive system disorders w/o ce/mee           139         Salivary gland procedures         761 Menstrual and other female reproductive system disorders w/o ce/mee           149         Dysequilibrium         765 Cesarean section w/o ce/mee           149         Dysequilibrium         765 Cesarean section w/o ce/mee           131         Chest pain         765 Cesarean section w/o ce/mee           131         Chest pain         768 Vaginal delivery with vith O.R. procedures well and work or/mee           132         Syncope and collapse         768 Vaginal deliver	069	Transient ischemia w/o thrombolytic	707 Major male pelvic procedures w cc/mcc
076         Viral meningitis w/o ce/mec         709 Major male penis procedures w ce/mec           113         Orbital procedures w ce/mec         710 Major male penis procedures w/o ce/mec           114         Orbital procedures w/o ce/mec         742 Uterine and adnexa procedures for non-malignancy w/o ce/mec           116         Intraocular procedures w/o ce/mec         743 Uterine and adnexa procedures for non-malignancy w/o ce/mec           117         Intraocular procedures w/o ce/mec         746 Vagina, cervix and vulva procedures w/o ce/mec           123         Neurological eye disorders         747 Vagina, cervix and vulva procedures w/o ce/mec           138         Mouth procedures w/o ce/mec         748 Female reproductive system reconstructive procedures           139         Salivary gland procedures         760 Menstrual and other female reproductive system disorders w/o ce/mec           149         Dysequilibrium         761 Menstrual and other female reproductive system disorders w/o ce/mec           202         Bronchitis and asthma w/o ce/mec         766 Cesarean section w/o ce/mec           312         Syncope and collapse         768 Vaginal delivery with O.R. procedure except serifization and/or D&C           313         Chest pain         769 Postpartum and post abortion diagnoses with O.R. procedures wrome.           483         Major joint/limb reattachment procedure of upper extremities         770 Abortion with D&C, aspirati		<del>-</del>	· · ·
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Intraocular procedures w cc/mcc		<u>*</u>	742 Uterine and adnexa procedures for non-
117 Intraocular procedures w/o cc/mcc 123 Neurological eye disorders 124 Neurological eye disorders 125 Mouth procedures w cc/mcc 126 Mouth procedures w cc/mcc 127 Mouth procedures w/o cc/mcc 128 Female reproductive system reconstructive procedures 139 Mouth procedures w/o cc/mcc 130 Mouth procedures 130 Salivary gland procedures 131 Alivary gland procedures 132 Salivary gland procedures 133 Alivary gland procedures 134 Dysequilibrium 145 Dysequilibrium 146 Dysequilibrium 147 Officesarean section w cc/mcc 147 Vaginal delivery with occ/mcc 148 Female reproductive system disorders w/o cc/mcc 149 Dysequilibrium 140 Dysequilibrium 141 Officesarean section w/o cc/mcc 140 Dysequilibrium 140 Dysequilibrium 141 Officesarean section w/o cc/mcc 141 Vaginal delivery with occ/mcc 142 Syncope and collapse 143 Chest pain 144 Major joint/limb reattachment procedure of upper extremities 145 Major joint/limb reattachment procedure of upper extremities 146 Major joint/limb reattachment procedure of upper extremities 147 Vaginal delivery with O.R. procedures 148 Knee procedures without pdx of infection w/o cc/mcc 148 Knee procedures without pdx of infection w/o cc/mcc 148 Knee procedures without pdx of infection w/o cc/mcc 148 Knee procedures without pdx of infection w/o cc/mcc 148 Major shoulder or elbow joint procedures w/o cc/mcc 148 Major shoulder or elbow joint procedures w/o cc/mcc 150 Major shoulder or elbow joint procedures w/o cc/mcc 151 Hand or wrist procedures, except major thumb or joint procedures w/o cc/mcc 152 Back and neck procedures, except major thumb or joint procedures w/o cc/mcc 153 Back and neck procedures except spinal fusion w mcc or disc device or neurostimulator 159 Back and neck procedures except spinal fusion w/o cc/mcc 150 Back and neck procedures except spinal fusion w/o cc/mcc 153 Sprains, strains, and dislocations of hip, pelvis and thigh w cc/mcc 154 Neonate with other significant problems cc/mcc 155 Sprains, strains, and dislocations of hip, pelvis and thigh w cc/mcc 156 O.R. procedure with princ	116	Intraocular procedures w cc/mcc	743 Uterine and adnexa procedures for non-
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extremities hysterotomy  774 Vaginal delivery w cc/mcc  775 Vaginal delivery w cc/mcc  776 Postpartum and post abortion diagnoses without O.R. procedures  776 Postpartum and post abortion diagnoses without O.R. procedures  777 Ectopic pregnancy  778 Threatened abortion  779 Abortion without D&C  770 postpartum and post abortion diagnoses without O.R. procedures  778 Threatened abortion  779 Abortion without D&C  770 False labor  770 False labor  771 Edectopic pregnancy  772 Exterior pregnancy  773 Threatened abortion  774 Vaginal delivery w/o cc/mcc  775 Vaginal delivery w/o cc/mcc  776 Postpartum and post abortion diagnoses without O.R. procedures  777 Ectopic pregnancy  778 Threatened abortion  779 Abortion without D&C  770 False labor  771 False labor  770 F	313	Chest pain	
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cc/mcc  Hand or wrist procedures, except major thumb or joint procedures w cc/mcc  Hand or wrist procedures, except major thumb or joint procedures w cc/mcc  Back and neck procedures except spinal fusion w mc or disc device or neurostimulator  Back and neck procedures except spinal fusion w cc 782 Other antepartum diagnoses w/o cc/mcc  Back and neck procedures except spinal fusion w/o 794 Neonate with other significant problems cc/mcc  Sprains, strains, and dislocations of hip, pelvis and thigh w/oc/mcc  Sprains, strains, and dislocations of hip, pelvis and 864 Fever and inflammatory conditions  Sprains, strains, and dislocations of hip, pelvis and 876 O.R. procedure with principal diagnoses of mental	507	Major shoulder or elbow joint procedures w cc/mcc	777 Ectopic pregnancy
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mcc or disc device or neurostimulator  Back and neck procedures except spinal fusion w cc  782 Other antepartum diagnoses w/o cc/mcc  Back and neck procedures except spinal fusion w/o cc/mcc  Sprains, strains, and dislocations of hip, pelvis and thigh w cc/mcc  Sprains, strains, and dislocations of hip, pelvis and	514		780 False labor
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cc/mcc  537 Sprains, strains, and dislocations of hip, pelvis and thigh w cc/mcc  538 Sprains, strains, and dislocations of hip, pelvis and 876 O.R. procedure with principal diagnoses of mental	519	Back and neck procedures except spinal fusion w cc	782 Other antepartum diagnoses w/o cc/mcc
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Sprains, strains, and dislocations of hip, pelvis and 876 O.R. procedure with principal diagnoses of mental	537		864 Fever and inflammatory conditions
	538	Sprains, strains, and dislocations of hip, pelvis and	

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582	Mastectomy for malignancy w cc/mcc	880 Acute adjustment reaction and psychosocial dysfunction
583	Mastectomy for malignancy w/o cc/mcc	881 Depressive neuroses
584	Breast biopsy, local excision and other breast procedures w cc/mcc	882 Neuroses except depressive
585	Breast biopsy, local excision and other breast procedures w/o cc/mcc	883 Disorders of personality and impulse control
600	Non-malignant breast disorders w cc/mcc	885 Psychoses
601	Non-malignant breast disorders w/o cc/mcc	886 Behavioral and developmental disorders
614	Adrenal and pituitary procedures w cc/mcc	887 Other mental disorder diagnoses
615	Adrenal and pituitary procedures w/o cc/mcc	894 Alcohol, drug abuse or dependence, left ama
652	Kidney transplant	895 Alcohol, drug abuse or dependence
691	Urinary stones with esw lithotripsy w cc/mcc	906 Hand procedures for injuries
692	Urinary stones with esw lithotripsy w/o cc/mcc	935 Non-extensive burns
		945 Rehabilitation w cc/mcc
		946 Rehabilitation w/o cc/mcc

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